

## ABSTRACT

A base station (or a radio terminal) according to the present invention, being an apparatus that constitutes a wireless LAN system realizing band-widening using a plurality of communication channels, includes: a plurality of physical layers corresponding to the plurality of communication channels, and each that transmits and receives a radio signal conforming to an IEEE 802.11 standard using a corresponding communication channel; and a media access control (MAC). The MAC, when transmitting, divides an entire data frame conforming to the IEEE 802.11 standard from a head of the data frame, in accordance with a transmission rate of each physical layer, and allots the divided data frame to the physical layers so that burst times of the communications channels are equal, and when receiving, combines data frames received via a plurality of communication channels through operations opposite to those performed when transmitting.